

# Astra 2015 Workshop Manual

**Vauxhall Opel/Astra**-John S. Mead 2013 This title covers Vauxhaull/Opel Astra hatchback and estate models, 1.4 and 1.6 litre petrol engines, and 1.3, 1.7 and 2.0 litre diesel engines.

**Vauxhall/Opel Astra and Zafira Diesel Service and Repair Manual**-Martynn Randall 2005-03 Astra Hatchback, Saloon & Estate, and Zafira MPV, inc. special/limited editions. Does NOT cover automatic transmission variants, or new range introduced May 2004 Diesel: 1.7 litre (1686 & 1700cc) & 2.0 litre (1995cc) turbo diesel. Does NOT cover 1.7 litre CDTi common rail engines.

**Ad Astra: An Illustrated Guide to Leaving the Planet**-Dallas Campbell 2017-10-05 'I could have done with a copy of Ad Astra in December 2015!' -Tim Peake ‘A wonderful, wise and witty guide for space explorers everywhere.’ - Richard Osman ‘A must read both for intrepid space explorers and misty-eyed dreamers. Now, to space!’ - Hannah Fry ‘Few people are more knowledgeable, celebratory and witty about space travel than Dallas Campbell.’ - Adam Rutherford Need some space? For almost all human history we’ve been firmly rooted to the Earth. And, sure, it's got some good things going for it: nice views, friendly inhabitants, good coffee. Air. But what if you want to get off? Whether you've got itchy feet and need a bit of a break, or you’re looking for a complete change of scene, this book has all the information you’ll need to leave, with FREE expert advice from the men and woman who can actually make it happen. Do I need a passport? How do I know if I have the right stuff? Can I take my dog? What spacesuit do I need? Where am I going to go? What am I going to eat? As well as being a deeply impractical guide to getting off the planet, this is an eclectic and beautifully illustrated mix-tape of space travel stories – both real and imagined. From the migrating lunar geese that flew us to the moon in the 1600’s, to Elon Musk’s wild plan to get humans to Mars en masse in the future; from the history of early rocket science to the Soviet tortoises that secretly won the space race. A collection for anyone who has looked up in wonder at the stars... And then wondered how to get there. ‘The next best thing to actually heading off into space.’ - Jim Al-Khalili ‘Few people are more knowledgeable, celebratory and witty about space travel than Dallas Campbell.’ - Adam Rutherford ‘If, like me, you dream of going into space, this is definitely the place to start the journey.’ - Dan Snow ‘A must have volume for astronauts and armchair astronauts alike.’ - Helen Sharman OBE ‘Funny, factual and beautiful.’ - Shaun Keavney ‘Read it, make notes, and be ready when the day comes.’ - Helen Czerski

**Ford Transit Diesel (00-06)**-John S. Mead 2009 Transit Diesel variants (inc. Tourneo) with front- or rear-wheel-drive and manual transmission. Does NOT cover auto-shift manual (ASM) transmission, petrol models, specialist bodywork/conversions or Transit Connect range. Does NOT cover new Transit range introduced October 2006. Turbo-Diesel: 2.0 litre (1998cc) & 2.4 litre (2402cc) (Di & TDCi).

**Camaro Restoration Guide, 1967-1969**-Jason Scott

**NASA Space Shuttle Manual**-David Baker 2011-04-18 Designed between 1969 and 1972 and first flown into space in 1981, the NASA Shuttle will have flown almost 140 missions by the time it is retired in 2011. David Baker describes the origin of the reusable launch vehicle concept during the 1960s, its evolution into a viable flying machine in the early 1970s, and its subsequent design, engineering, construction, and operation. The Shuttle’s internal layout and systems are explained, including the operation of life support, electrical-power production, cooling, propulsion, flight control, communications, landing, and avionics systems.

**A Difficult Disguise (Alphabet Regency Romance)**-Kasey Michaels 1990-09-01 A Kasey Michaels Alphabet Regency Romance Classic. "Using wit and romance with a master's skill, Kasey Michaels aims for the heart and never misses." -- Nora Roberts Everyone has read the plot involving a beautiful young runaway debutante masquerading as boy. But in A Difficult Disguise, Rosalie Darley, taking the name Billy, does her hiding in plain sight, working in the stables at the estate of her unknowing guardian, Fletcher Belden. Ah, but is Fletcher really that blind, or is he playing a game of his own? Enjoy the entire Alphabet Regency Romance series! The Tenacious Miss Tamerlane The Savage Miss Saxon Moonlight Masquerade The Somerville Farce The Mischievous Miss Murphy A Difficult Disguise The Rambunctious Lady Royston The Wagered Miss Winslow The Belligerent Miss Boynton The Lurid Lady Lockport The Haunted Miss Hampshire The Playful Lady Penelope Nine Brides and One Witch: A Regency Novella Duo

**Imperial Munitorum Manual**-Graham McNeill 2007-11-13 In the style of a military weapons catalogue, this text features over 60 entries on weapons, kit and equipment utilised by the Imperial Guard, as well as details about the organisation that provides it, the Departmento Munitorum.

**Nissan Patrol and Ford Maverick Australian Automotive Repair Manual**-Tim Imhoff 2001-01-01 Nissan: Patrol Series GQ, 3.0 & 4.2 petrol & 4.2 diesel. Ford: Maverick Series DA. Petrol & diesel models. Does NOT cover UK Ford. Maverick. or Nissan Terrano.

**Vauxhall/Opel Omega Service and Repair Manual**-Mark Coombs 1999 Saloon, Estate, inc. special/limited editions. Does NOT cover bi-fuel models. Petrol: 2.0 litre (1998cc) 4-cyl. 2.5 litre (2498cc) & 3.0 litre (2962cc) V6.

**World Report on Ageing and Health**-World Health Organization 2015-10-22 The WHO World report on ageing and health is not for the book shelf it is a living breathing testament to all older people who have fought for their voice to be heard at all levels of government across disciplines and sectors. - Mr Bjarne Hastrup President International Federation on Ageing and CEO DaneAge This report outlines a framework for action to foster Healthy Ageing built around the new concept of functional ability. This will require a transformation of health systems away from disease based curative models and towards the provision of older-person-centred and integrated care. It will require the development sometimes from nothing of comprehensive systems of long term care. It will require a coordinated response from many other sectors and multiple levels of government. And it will need to draw on better ways of measuring and monitoring the health and functioning of older populations. These actions are likely to be a sound investment in society's future. A future that gives older people the freedom to live lives that previous generations might never have imagined. The World report on ageing and health responds to these challenges by recommending equally profound changes in the way health policies for ageing populations are formulated and services are provided. As the foundation for its recommendations the report looks at what the latest evidence has to say about the ageing process noting that many common perceptions and assumptions about older people are based on outdated stereotypes. The report's recommendations are anchored in the evidence comprehensive and forward-looking yet eminently practical. Throughout examples of experiences from different countries are used to illustrate how specific problems can be addressed through innovation solutions. Topics explored range from strategies to deliver comprehensive and person-centred services to older populations to policies that enable older people to live in comfort and safety to ways to correct the problems and injustices inherent in current systems for long-term care.

**The Teaching Transgender Toolkit**-Eli R. Green 2015-09-01 The Teaching Transgender Toolkit is the first of its kind and is based on decades of transgender training experience and current best practices. This guide enables facilitators and trainers to provide the most accurate and effective practical training, toward the goals of increasing awareness, empathy and skills. As a result of these trainings, participants will be better prepared to acknowledge, support, and engage with transgender people in an affirming manner.

**Rocket Manual - 1942 onwards**-David Baker 2015-01-20 The Rocket Manual tells the story of rocket motors, how they were first developed, how they work, what they are used for and how they are operated. It also explains the origin and operating record of satellite launchers around the world. Rocket motors large and small are listed and explained, including small motors used to push satellites and spacecraft into different orbits, throttleable rockets for controlling spacecraft descending to the Moon and the surfaces of other planets, restartable motors for adjusting orbits and reusable motors such as those developed for the Shuttle.

**Emily Post's Etiquette, 19th Edition**-Lizzie Post 2017-04-18 The Emily Post Institute, the most trusted brand in etiquette, tackles the latest issues regarding how we interact along with classic etiquette and manners advice in this updated and gorgeously packaged edition. Today's world is in a state of constant change. But one thing remains year after year: the necessity for good etiquette. This 19th edition of Emily Post's Etiquette offers insight and wisdom on a variety of new topics and fresh advice on classic conundrums, including: Social media Living with neighbors Networking and job seeking Office issues Sports and recreation Entertaining at home and celebrations Weddings Invitations Loss, grieving, and condolences Table manners While they offer useful information on the practical—from table settings and introductions to thank-you notes and condolences—the Posts make it clear why good etiquette matters. Etiquette is a sensitive awareness of the feelings of others, they remind us. Ultimately, being considerate, respectful, and honest is what's really important in building positive relationships. "Please" and "thank you" do go a long way, and whether it's a handshake, a hug, or a friend request, it's the underlying sincerity and good intentions behind any action that matter most.

**The X-15 Rocket Plane**-Michelle Evans 2020-04-01 With the Soviet Union's launch of the first Sputnik satellite in 1957, the Cold War soared to new heights as Americans feared losing the race into space. The X-15 Rocket Plane tells the enthralling yet little-known story of the hypersonic X-15, the winged rocket ship that met this challenge and opened the way into human-controlled spaceflight. Drawing on interviews with those who were there, Michelle Evans captures the drama and excitement of, yes, rocket science: how to handle the heat generated at speeds up to Mach 7, how to make a rocket propulsion system that could throttle, and how to safely reenter the atmosphere from space and make a precision landing. This book puts a human face on the feats of science and engineering that went into the X-15 program, many of them critical to the development of the Space Shuttle. And, finally, it introduces us to the largely unsung pilots of the X-15. By the time of the Apollo 11 moon landing, thirty-one American astronauts had flown into space--eight of them astronaut-pilots of the X-15. The X-15 Rocket Plane restores these pioneers, and the others who made it happen, to their rightful place in the history of spaceflight. Browse more spaceflight books at [upinspace.org](http://upinspace.org). Purchase the audio edition.

**Vauxhall/Opel Corsa Service and Repair Manual**-A. K. Legg 2004 Hatchback, Corsavan & Combo Van, inc. special/limited editions. Does NOT cover facelifted range from Oct 2003. Petrol: 1.0 litre (973cc) 3-cyl, 1.2 litre (1199cc) & 1.4 litre (1389cc) 4-cyl. Does NOT cover 1.8 litre (1796cc). Turbo-Diesel: 1.7 litre (1686cc).

**The Pontiac Solstice Book**-Gary L. Witzenburg 2006-10-01 The Pontiac Solstice Book traces this remarkable new roadster from beginning to end - conception through development and on into production. This panoramic, oversized (9x12 inches) hardcover books eight chapters, 130 pages and 192 color pictures highlight the GM designers, engineers and managers who transformed Bob Lutzs idea into reality in a record 27 months. The book goes into extensive detail about the turbocharged GXP, V8 conversions, the Solstice as race car, manufacturing processes and what's available in the way of accessories and options. The books author is engineer/racer/writer Gary Witzenburg. Bob Lutz, GM's global vice chairman, contributed the foreword.If ever you've lusted after a true American sports car and one of Detroit's greater performance bargains, the Solstice is it. Heres a car thats a pleasure to look at and a kick to drive. Read all about it in The Pontiac Solstice Book.

**Peugeot 208 Petrol & Diesel (2012 to 2019) 12 to 69 Reg**-Peter Gill 2020-01-27

**Die Design Handbook**-David Alkire Smith 1990 Whether you're involved in a highly specialized operation, or need comprehensive information on many types of die designs, this book is your best bet book on how to design dies. Hundreds of illustrations on proven designs are included, as well as hundreds of tables and equations to help you make quick calculations for allowances, pressures, forces and more.

**Citroen C3**-John S. Mead 2005

**Vauxhall Frontera Service and Repair Manual**-John S. Mead 1998 All models inc. special/limited editions. Does NOT cover revised Frontera range introduced October 1998. Petrol: 2.0 litre (1998cc), 2.2 litre (2198cc) & 2.4 litre (2410cc). Turbo-Diesel: 2.3 litre (2260cc), 2.5 litre (2499cc) & 2.8 litre (2771cc).

**Toyota Yaris Service and Repair Manual**-R. M. Jex 2005 Hatchback. Does NOT cover T-Sport, Free-Tronic/MMT clutchless transmission or features specific to Verso models. Petrol: 1.0 litre (998cc) & 1.3 litre (1299cc).

**Jeep Cherokee XJ Performance Upgrades**-Eric Zappe 2015-04-15 The Jeep Cherokee XJ is a pioneering SUV that delivers commendable performance and off-road capability. More than 3 million Cherokee XJs were manufactured during its production run. However, when the XJs rolled off the production lines, they were built primarily for the street. As a result, XJs need crucial modifications and high-performance upgrades to make them better for off-road duty. In this updated edition, author and veteran Cherokee expert Eric Zappe guides you through each stage of an XJ build, so you can take the mild-mannered, bone-stock XJ and upgrade it to a capable off-road performer. Zappe delves into suspension bolt-on improvements, including lift kits to increase ground clearance and suspension travel. He also covers high-performance shocks and long-arm suspensions. Wheels and tires are your vital link to the terrain, and he reveals all the important considerations so you select the right combination. XJs need a heavy-duty steering system to negotiate challenging off-road conditions, and Zappe explains several ways to upgrade the steering. Driveline and axle upgrades are an important part of the performance equation, so these performance improvements are covered as well. But he doesn't stop there; he also explores engine performance improvements for the 2.5-, 2.8-, 4.0-liter engines so the Cherokee has more power for off-road performance. In addition, he covers some basic tips for body strengthening and adding skid plates. If you're ready to go off road with your Cherokee but you're not planning to build a top-dollar off-road machine, this is the book for you. With the techniques and latest products described in this book, you will be able to upgrade your XJ to much higher level of performance and your XJ will be at home off and on road.

**Automatic Record Changer Service Manual**-Howard W. Sams & Co 1955

**Vauxhall/Opel Astra and Zafira Petrol Service and Repair Manual**- 2014-07 Covering all aspects of maintenance, repair and routine servicing tasks, this guide to the Vauxhall/Opel Astra and Zafira features technical information and specifications for petrol cars built between 1998 and 2004.

**Automatic Record Changer Service Manual Including Latest "long Play" (LP) Changers, Wire and Tape Recorders**-Howard W. Sams & Co 1957

**Austin/MG Metro**-Andrew K Legg 1996

**Pemeliharaan Sasis Sepeda Motor SMK/MAK Kelas XI. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik dan Bisnis Sepeda Motor (Edisi Revisi)**-Z. Furqon, S.T. 2021-04-13 Buku yang berjudul Pemeliharaan Sasis Sepeda Motor SMK/MAK Kelas XI ini dapat hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Kompetensi Keahlian Teknik dan Bisnis Sepeda Motor. Buku ini berisi pengetahuan Teknik dan Bisnis Sepeda Motor yang mengacu pada Kurikulum 2013 revisi tahun 2017. Materi yang dibahas dalam buku ini meliputi: • Sistem rem sepeda motor • Pelek sepeda motor • Jenis-Jenis ban sepeda motor • Sistem suspensi dan kemudi sepeda motor • Rantai dan rangka sepeda motor Berdasarkan materi yang telah disajikan, para siswa diajak untuk melakukan aktivitas HOTS (Higher Order Thinking Skills) dengan cara menanya, mengeksplorasi, mengamati, mengasosiasikan, dan mengomunikasikan. Buku ini dilengkapi dengan latihan soal berupa pilihan ganda, esai, dan tugas proyek yang bertujuan untuk mengukur kemampuan siswa dalam menguasai materi sesuai kompetensi dasar dan kompetensi inti. Buku ini telah disesuaikan dengan tuntutan kompetensi SMK/MAK di bidangnya. Dengan demikian, kami berharap siswa mampu berkompetisi di dunia kerja.

**Behind the Sound Cart**-Patrushkha Mierzwa 2021-02-22 "Behind the Sound Cart: A Veteran's Guide to Sound on the Set" details how the entire Sound team functions on today's movie and television sets, while illuminating the overall picture of life on a production. Patrushkha takes you from the first work call to the final wrap, explaining the order of the work and the details that her decades of experience provides, so you may avoid mistakes that may sabotage your career before it's even started. This book describes the job of the UST (Utility Sound Technician), a career almost invisible, yet extremely interesting, exciting-and paying up to six figures a year. This book details how to act, how to relate to the crew, how to deal with and solve problems that are not just about sound itself-things you don't learn at film school. Patrushkha Mierzwa, one of the first female boom operators in Hollywood, has worked on over 80 movies and television projects for major directors including Robert Rodriguez, Quentin Tarantino, James Gray, and Robert Altman. She has been a judge for the Emmys, an IATSE Sound Local 695 director, and given workshops globally over her long career in the industry.Her Sound Oscar-nominated shows include "Ad Astra" and "Once Upon a Time?in Hollywood". This book condenses 40 years of experience into a practical guide for you to be able to walk onto a film set with the confidence of a sound ninja. - Stuart Wilson, Sound Oscar winner, 1917 This is my go-to reference and should be in every film school on the globe.-Simon Clark, Head of Location Sound Recording, National Film & Television School, EnglandI think this is really going to help students, super down to earth, logical and clear. I knew that it'd be a great book after your visits and sessions with our students. You're a wonderful speaker and your voice comes right through clearly and concisely in this book.Congratulations again and I hope we get to invite you back to Greenwich again in the near future! -Dr Andrew Knight-Hill, University of Greenwich, London.

**Aerospace Robotics III**-Jerzy Sasiadek 2018-11-11 This book includes extended versions of original works on aerospace robotics presented at the Conference on Aerospace Robotics (CARO) in Warsaw. It presents recent advances in aerospace robotics, such as manipulators, which are widely used in space for orbital operations, for example, the Mobile Servicing System on the International Space Station and the Shuttle Remote Manipulator System. Such manipulators are operated by astronauts and mounted on large platforms, making the influence of manipulator motion on the state of the platform insignificant. Application of manipulators for capture maneuvers in unmanned On-Orbit Servicing or Active Debris Removal missions requires reliable control algorithms that take into account the free-floating nature of the manipulator-equipped spacecraft. As such the book presents possibilities for using space manipulators for exploration and a variety of space operations. Further, it discusses new methods for the control of autonomous unmanned aerial vehicles (UAV) using vision systems and sensor fusion methodologies. Such autonomous flying vehicles could be used for materials deliveries and emergencies, as well as surveying and servicing.

**Mazda MX-5/Miata Mk1 & 2**-Oliver Wild 2019-07-23 An easy to follow guide to restoring a classic Mazda MX-5/Miata - the world's favourite small sports car. This book takes you step-by-step through choosing a project car, looking the car over, planning the restoration, and buying parts and tools to perform the work. The comprehensive text is fully supported by high-resolution photographs, guiding you through stripping the car down, cutting out and repairing rust, restoration of interiors, replacing the hood, refurbishing the underside of the car including the floor pan, suspension, brakes, undersealing, reassembly, replacing the cam belt and waterpump, replacing engine seals and gaskets to cure common leaks. It also provides a guide to handy upgrades as you go along. Whether you are looking to restore to original condition or build an out-and-out track weapon, the techniques described in this book will assist you in getting the right base to start with. The book is based on an actual restoration of a vehicle carried out by the author, with before and after shots.

**HM Holden Colorado 2012-19 D Max 2008-2019**-Haynes

**Teori dan Teknik Reparasi Rem Mobil**-Drs. Daryanto 2021-08-27 Rem memegang peranan yang sangat penting dalam kendaraan, terutama untuk mengurangi laju kendaraan dan menghentikan kendaraan. Rem pada mobil terdiri dari beberapa jenis yaitu rem cakram, rem tromol, rem hidrolik (silinder master, tandem silinder), rem pneumatik/angin, rem parkir/tangan, dan rem ABS. Merawat dan mereparasi rem mobil menjadi upaya yang penting agar rem tetap berfungsi dengan baik. Buku ini hadir untuk Anda yang ingin mengetahui cara merawat dan mereparasi rem mobil. Beberapa teori mengenai rem juga disajikan dalam buku ini.

**How to Modify Ford S.o.H.C. Engines**-David Vizard 1984-01-01

**Clinical Practice Guidelines for Chronic Kidney Disease-**

**Chilton's Saturn Coupes/sedans/wagons, 1991-2002 Repair Manual**-Matthew E. Frederick 2004

**Pemeliharaan Kelistrikan Kendaraan Ringan Kelas XI: Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif**-Z. Furqon, S.T. 2021-04-19 Buku yang berjudul Pemeliharaan Kelistrikan Kendaraan Ringan SMK/MAK Kelas XI ini hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Teknik Otomotif Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif. Buku ini berisi materi pembelajaran yang membekali para siswa dengan pengetahuan dan keterampilan dalam dunia otomotif yang mengacu pada Kurikulum 2013 revisi tahun 2017. Materi yang dibahas dalam buku ini meliputi beberapa hal berikut. • Perawatan sistem kelistrikan dan perlengkapan kelistrikan tambahan (aksesori) kendaraan ringan • Perawatan sistem starter kendaraan ringan • Perawatan sistem pengisian kendaraan ringan • Perawatan sistem pengapian konvensional dan elektronik • Perawatan sistem instrumen dan sistem Air Conditioning (AC) kendaraan ringan • Perawatan sistem audio dan sistem pengaman • Perawatan kelistrikan kendaraan ringan secara berkala Berdasarkan materi yang telah disajikan, para siswa diajak untuk melakukan aktivitas HOTS (Higher Order Thinking Skills) dengan cara menanya, mengeksplorasi, mengamati, mengasosiasikan, dan mengomunikasikan. Buku ini dilengkapi dengan latihan soal berupa pilihan ganda, esai, dan tugas proyek. Hal ini bertujuan untuk mengukur kemampuan siswa dalam memahami materi. Selain itu, buku ini juga dilengkapi dengan info untuk menambah pengetahuan para siswa. Kebutuhan akan buku ini sejalan dengan tuntutan kompetensi SMK/MAK bidang teknik otomotif. Dengan demikian, kami berharap bahwa siswa dapat mencapai kompetensi yang diharapkan dan lulusan SMK/MAK dapat mempersiapkan diri dengan baik ketika memasuki dunia kerja.

**Pemeliharaan Mesin Kendaraan Ringan SMK/MAK Kelas XII. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Otomotif (Edisi Revisi)**-Z. Furqon, S.T. 2021-04-12 Buku yang berjudul Pemeliharaan Mesin Kendaraan Ringan Kelas XII ini dapat hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Program Keahlian Teknik Otomotif Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif. Buku ini berisi pengetahuan di bidang Teknologi dan Rekayasa yang mengacu pada Kurikulum 2013 revisi tahun 2017.Materi yang dibahas dalam buku ini meliputi: • Kepala silinder dan blok silinder • Sistem pelumasan dan pendinginan • Sistem bahan bakar • Engine Management System (EMS) • Memperbaiki sistem bahan bakar diesel dan evaluasi hasil perbaikan Berdasarkan materi yang telah disajikan, para siswa diajak untuk melakukan aktivitas HOTS (Higher Order Thinking Skills) dengan cara menanya, mengeksplorasi, mengamati, mengasosiasikan, dan mengomunikasikan. Buku ini dilengkapi dengan latihan soal berupa pilihan ganda, esai, dan tugas proyek yang bertujuan untuk mengukur kemampuan siswa dalam menguasai materi sesuai kompetensi dasar dan kompetensi inti. Buku ini telah disesuaikan dengan tuntutan kompetensi SMK/MAK di bidangnya. Dengan demikian, kami berharap siswa mampu berkompetisi di dunia kerja.

**Road & Track**- 1994

**X-Ray CT**-Hiroyuki Toda 2021 This book provides easy-to-understand explanations to systematically and comprehensively describe the X-ray CT technologies, techniques, and skills used for industrial and scientific purposes. Included are many references along with photographs, figures, and equations prepared by the author. These features all facilitate the reader's gaining a deeper understanding of the topics being discussed. The book presents expertise not only on fundamentals but also about hardware, software, and analytical methods for the benefit of technical users. The book targets engineers, researchers, and students who are involved in research, development, design, and quality assurance in industry and academia. This publication was supported by JSPS KAKENHI Grant Number 20HP5222. .

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